

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/000230

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B44C1/22 E04F15/022 B32B21/04 B32B31/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B44C E04F B32B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 243 805 A (BERNSTEIN GROUP PLC) 13 November 1991 (1991-11-13) page 1, paragraph 2 - page 3, paragraph 2; figures 1-6	1-3,5, 9-11, 14-19
A	the whole document	4,6-8, 12,13
X	AT 387 621 B (DANA TUERENINDUSTRIE ; DANA TUERENINDUSTRIE (OO)) 27 February 1989 (1989-02-27) page 5, lines 4-45; figures 1-4	1,5,6, 11,14, 15,17,19
A	the whole document	2-4, 7-10,13, 16,18
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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G document member of the same patent family

Date of the actual completion of the international search

4 April 2005

Date of mailing of the international search report

13/04/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Golombek, G

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 439 009 A (PELZ ERNST ERPE VERTRIEB) 31 July 1991 (1991-07-31) column 3, line 1 - column 4, line 45; figure 3 -----	1
A	US 6 006 486 A (MORIAU STEFAN SIMON GUSTAAF ET AL) 28 December 1999 (1999-12-28) column 2, line 66 - column 4, line 42; figures 2-7 -----	13

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/000230

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 2243805	A	13-11-1991	NONE
AT 387621	B	27-02-1989	AT 395889 B 25-03-1993 AT 5688 A 15-08-1989 AT 56587 A 15-07-1988
EP 0439009	A	31-07-1991	DE 4002039 A1 25-07-1991 BR 9104190 A 21-04-1992 WO 9111329 A1 08-08-1991 EP 0439009 A1 31-07-1991
US 6006486	A	28-12-1999	BE 1010339 A3 02-06-1998 BE 1010487 A6 06-10-1998 AT 5566 U1 26-08-2002 AT 246760 T 15-08-2003 AT 219812 T 15-07-2002 AT 196790 T 15-10-2000 AU 713628 B2 09-12-1999 AU 3256997 A 07-01-1998 BG 62216 B1 31-05-1999 BG 102230 A 30-09-1998 BR 9702325 A 09-03-1999 CA 2226286 A1 18-12-1997 CA 2475076 A1 18-12-1997 CN 1399051 A 26-02-2003 CN 1195386 A ,C 07-10-1998 CZ 9800391 A3 12-08-1998 DE 1026341 T1 05-07-2001 DE 1024234 T1 06-09-2001 DE 02076363 T1 30-09-2004 DE 29710175 U1 14-08-1997 DE 29724428 U1 05-04-2001 DE 29724742 U1 03-07-2003 DE 29724868 U1 13-01-2005 DE 29724876 U1 27-01-2005 DE 69703230 D1 09-11-2000 DE 69703230 T2 01-03-2001 DE 69713629 D1 01-08-2002 DE 69713629 T2 06-02-2003 DE 69724013 D1 11-09-2003 DE 69724013 T2 09-06-2004 DK 1026341 T3 24-11-2003 DK 1024234 T3 14-10-2002 DK 843763 T3 29-01-2001 EG 21186 A 31-12-2000 WO 9747834 A1 18-12-1997 EP 1026341 A2 09-08-2000 EP 1024234 A2 02-08-2000 EP 1223267 A2 17-07-2002 EP 1338721 A2 27-08-2003 EP 0843763 A1 27-05-1998 ES 2153799 T1 16-03-2001 ES 2153800 T1 16-03-2001 ES 2220244 T1 16-12-2004 ES 2152679 T3 01-02-2001 GR 3034933 T3 28-02-2001 HK 1016234 A1 22-11-2002 HU 9901996 A2 28-10-1999

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/000230

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6006486	A	ID 17097 A	04-12-1997
		JP 11510869 T	21-09-1999
		MA 24198 A1	31-12-1997
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